



431 River Road
Bow, NH 03304

GSP MERRIMACK

March 13, 2018

Submitted on-line via NetDMR

D34145

U.S. Environmental Protection Agency
Water Technical Unit (SMR-04)
OES4 – SMR
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Reference: NPDES Permit No. NH0001465, Merrimack Station, Public Service
Company of New Hampshire, issued June 25, 1992, modified October 22,
1992, modified January 10, 2018.

Dear Sir/Madam:

Merrimack Station
Monthly NPDES Discharge Monitoring Report
February 2018

In compliance with Part I, Section B.1., of the NPDES permit (see Reference), Granite Shore Power LLC herein submits the monthly NPDES report for Merrimack Station for the month of February. With two exceptions, all sampling and analyses were conducted by station personnel in accordance with EPA approved procedures referenced at 40 CFR Part 136. Eastern Analytical, Inc. of Concord, NH, performed the oil and grease analysis (EPA Method 1664B) and the total suspended solids analysis (SM 2540 D – 1997) on samples collected at Outfall 003A. There were no oily sheens, floating solids, or foam observed in any of the outfall discharges in other than trace amounts. There were no permit noncompliances recorded during the month.

As instructed by the agencies, Granite Shore Power now reports a concentration of zero (“0”) when the analytical result is less than the method detection limit (MDL). For this report, the following MDLs were used: Total Residual Oxidants = 0.05 mg/l (SM 4500-Cl E – 2011); Total Residual Oxidants = 0.01 mg/l (SM 4500-Cl D – 2011); Oil & Grease = 5.0 mg/l (EPA 1664B); Total Suspended Solids = 5.0 mg/l (SM 2540 D – 1997).

A slight sheen was detected in the cooling canal on February 16 adjacent to the discharge culvert from the settling pond. Estimated at less than four-foot square in size, the sheen was easily removed with oil absorbent pads.

March 13, 2018

The pH at Outfall 003 (Station S-0) was regularly measured below 6.5 SU during the beginning of the month. Compliance was maintained with the permit however, as the effluent pH tracked the naturally occurring inlet pH at Station N-5 (see the attached data sheets), and any discrepancies were within the limits of the equipment accuracy and precision. As such, these low pH values were not the result of activities at Merrimack Station and so *should not be recorded as violations in the Integrated Compliance Information System, Enforcement and Compliance History Online, or any other EPA compliance database.*

This report is required by, and prepared specifically for, the U.S. Environmental Protection Agency (EPA). It presents truly, accurately and completely, the observed measurements and analyses required by the EPA to be performed or submitted, but only such observed results. It is not intended as an assertion of the accuracy of any instrument, reading, or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions regarding this report, please call Allan Palmer, Senior Engineer, at (603) 634-2439.

Sincerely,

GRANITE SHORE POWER



Elizabeth H. Tillotson

Executive Director of Administration & Regulatory Affairs

Enclosures

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR February 2018

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
02/01/18	6.85	1700	6.81	6.79	1045	96
02/02/18	6.86	2215	6.83	6.80	1015	96
02/03/18	6.88	0600	6.86	6.85	0100	96
02/04/18	6.89	0000	6.85	6.82	1315	96
02/05/18	6.91	0630	6.89	6.88	1945	96
02/06/18	6.91	1845	6.89	6.87	0015	96
02/07/18	6.89	0015	6.86	6.85	1000	96
02/08/18	6.87	0000	6.85	6.82	0600	96
02/09/18	6.94	1745	6.89	6.85	1030	96
02/10/18	7.02	0000	6.95	6.91	0015	96
02/11/18	7.02	0015	7.00	6.98	1130	96
02/12/18	7.03	1815	6.99	6.91	0000	96
02/13/18	6.96	0230	6.93	6.89	0930	96
02/14/18	6.94	0400	6.88	6.82	0830	96
02/15/18	6.98	2330	6.93	6.89	0015	96
02/16/18	7.06	1500	7.02	6.98	0515	96
02/17/18	7.04	1615	7.00	6.96	0815	96
02/18/18	7.08	2115	7.02	6.98	0945	96
02/19/18	7.12	2330	7.05	6.99	1145	96
02/20/18	7.15	0000	7.11	7.08	1015	96
02/21/18	7.15	0030	6.90	6.72	1215	96
02/22/18	6.80	0145	6.73	6.70	0000	96
02/23/18	6.70	0030	6.66	6.63	1045	96
02/24/18	6.67	2030	6.64	6.62	0830	96
02/25/18	6.65	0030	6.61	6.58	1245	96
02/26/18	6.65	2045	6.61	6.58	0630	96
02/27/18	6.66	1545	6.62	6.58	0700	96
02/28/18	6.70	1630	6.66	6.61	0215	96
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AVERAGE	6.91		6.86	6.82		
STD DEV.:	0.15		0.14	0.14		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM
MONTHLY SUMMARY REPORT FOR February 2018

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
02/01/18	6.37	0545	6.32	6.25	2300	96
02/02/18	6.38	1400	6.35	6.28	0015	96
02/03/18	6.38	1030	6.36	6.35	2345	96
02/04/18	6.35	0200	6.31	6.27	1715	96
02/05/18	6.41	2100	6.36	6.31	1000	96
02/06/18	6.40	0400	6.39	6.36	0030	96
02/07/18	6.44	2115	6.39	6.36	0930	96
02/08/18	6.44	0815	6.40	6.35	0100	96
02/09/18	6.50	2245	6.43	6.36	0145	96
02/10/18	6.52	0000	6.48	6.44	1215	96
02/11/18	6.59	1745	6.57	6.52	0015	96
02/12/18	6.58	1430	6.57	6.56	2145	96
02/13/18	6.60	0745	6.57	6.54	1615	96
02/14/18	6.67	1645	6.61	6.57	0030	96
02/15/18	6.68	1645	6.62	6.58	0915	96
02/16/18	6.65	0015	6.59	6.55	0945	96
02/17/18	6.61	2145	6.58	6.55	2230	96
02/18/18	6.60	1230	6.57	6.54	2315	96
02/19/18	6.59	1330	6.55	6.52	1915	96
02/20/18	6.56	1900	6.52	6.49	1545	96
02/21/18	6.58	2345	6.54	6.50	0100	96
02/22/18	6.64	1430	6.61	6.57	0045	96
02/23/18	6.60	0315	6.56	6.49	1930	96
02/24/18	6.55	0445	6.51	6.47	1245	96
02/25/18	6.53	0115	6.49	6.43	0915	96
02/26/18	6.52	2345	6.48	6.44	1200	96
02/27/18	6.80	1400	6.51	6.47	1330	96
02/28/18	6.58	2115	6.54	6.48	1030	96
AVERAGE	6.54		6.49	6.45		
STD DEV.:	0.11		0.10	0.10		